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|-------------------------------|--------------------------------|---|
| DESIGN CP | DRAWN BY CP | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA |
| CHECKED <i>[Signature]</i> | APPROVED <i>[Signature]</i> | DRAWING NO. D3489 |
| DATE 06.01.04 | | TITLE PIP PIN |
| | | SCALE NTS |

A 06.01.04 NEW ISSUE

RELEASED
2006-01-04

SPECIFICATION CONTROL DRAWING

1) SPECIFICATION: **D3489-X-YYY PIP PIN**

WHERE 'X' IS THE NOMINAL SIZE IN 1/16THS OF AN INCH
AND 'YYY' IS THE GRIP LENGTH IN TENTHS OF INCHES

FOR EXAMPLE, D3489-3-050 IS 3/16" NOMINAL O.D. WITH 0.50" GRIP

2) ACCEPTABLE SUPPLIERS / PART NUMBERS TO PURCHASE

| DART P/N | Nominal O.D. | GRIP | Possible Suppliers | |
|-------------|-----------------|------|--------------------|-----------|
| | | | JERGENS | REID |
| D3489-3-050 | 3/16" | 0.50 | 806200 | DARS-000D |
| D3489-3-075 | 3/16" | 0.75 | 806201 | - |
| D3489-3-100 | 3/16" | 1.00 | 806202 | DARS-001 |
| D3489-3-125 | 3/16" | 1.25 | 806203 | - |
| D3489-3-150 | 3/16" | 1.50 | 806204 | - |
| D3489-3-175 | 3/16" | 1.75 | 806205 | - |
| D3489-3-200 | 3/16" | 2.00 | 806206 | DARS-004 |
| D3489-3-250 | 3/16" | 2.50 | 806208 | DARS-005 |
| D3489-3-300 | 3/16" | 3.00 | 806209 | - |
| D3489-4-050 | 1/4" | 0.50 | 806216 | DARS-009 |
| D3489-4-075 | 1/4" | 0.75 | 806217 | - |
| D3489-4-100 | 1/4" | 1.00 | 806218 | - |
| D3489-4-125 | 1/4" | 1.25 | 806219 | - |
| D3489-4-150 | 1/4" | 1.50 | 806220 | DARS-020 |
| D3489-4-175 | 1/4" | 1.75 | 806221 | - |
| D3489-4-200 | 1/4" | 2.00 | 806222 | DARS-030 |
| D3489-4-250 | 1/4" | 2.50 | 806224 | DARS-035 |
| D3489-4-300 | 1/4" | 3.00 | 806225 | DARS-040 |
| D3489-4-400 | 1/4" | 4.00 | 808227 | DARS-050 |

3) DESCRIPTION: DOUBLE ACTING, STAINLESS STEEL, QUICK-RELEASE
BALL LOCK PINS WITH RING HANDLE

4) MATERIAL: STAINLESS STEEL. MIN. PULL OUT STRENGTH = 200LBS (3/16" PINS)
OR 230LBS (1/4" PINS). MIN. DOUBLE SHEAR = 5150LBS (3/16" PINS) OR
9200LBS (1/4" PINS).

5) ALL DIMENSIONS ARE IN INCHES

